

ABSTRACT

A liquid ejection apparatus includes: a liquid ejection head (26) having a nozzle (21) with an inner diameter of $15\mu\text{m}$ or less to eject droplets of charged solution onto a substrate; an ejection voltage supply (25) to apply an ejection voltage to a solution inside the nozzle; a convex meniscus generator (40) to form a state in which the solution inside the nozzle rises from the nozzle in a convex shape; and an operation controller (50) to control application of a drive voltage to drive the convex meniscus generator and application of an ejection voltage by the ejection voltage supply so that the drive voltage to the convex meniscus generator is applied in timing overlapped with the application of a pulse voltage as the ejection voltage by the ejection voltage supply.